AMD A10-6790K specifications

General information	
Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD A10-Series
Model number ?	**A10-6790K**
CPU part numbers	**AD679KWOA44HL** is an OEM/tray microprocessor **AD679KWOHLBOX** is a boxed microprocessor
Frequency ?	**4000 MHz**
Turbo frequency	4300 MHz
Package	904-pin lidded micro-PGA package
Socket	**Socket FM2**
Size	1.57" x 1.57" / 4cm x 4cm
Introduction date	October 28, 2013
Architecture / Microarchitecture	
Microarchitecture	Piledriver
Processor core ?	Richland
Core stepping ?	RL-A1
CPUID	610F31h
Manufacturing process	0.032 micron
Data width	**64 bit**
The number of cores	**4**
The number of threads	**4**
Floating Point Unit	Integrated
Level 1 cache size ?	2 x 64 KB shared instruction caches 4 x 16 KB data caches
Level 2 cache size ?	**2 x 2 MB shared caches**
Level 3 cache size	**None**
Multiprocessing	Uniprocessor
Features	○ MMX instructions ○ SSE / Streaming SIMD Extensions ○ SSE2 / Streaming SIMD Extensions 2 ○ SSE3 / Streaming SIMD Extensions 3 ○ SSSE3 / Supplemental Streaming SIMD Extensions 3 ○ SSE4 / SSE4.1 + SSE4.2 / Streaming SIMD Extensions 4 ? ○ SSE4a ? ○ AES / Advanced Encryption Standard instructions ○ ABM / Advanced Bit Manipulation ? ○ AVX / Advanced Vector Extensions ○ BMI1 / Bit Manipulation instructions 1

	○ F16C / 16-bit Floating-Point conversion instructions ○ FMA3 / 3-operand Fused Multiply-Add instructions ○ FMA4 / 4-operand Fused Multiply-Add instructions ○ TBM / Trailing Bit Manipulation instructions ○ XOP / eXtended Operations instructions ○ AMD64 / AMD 64-bit technology ? ○ VT / Virtualization technology ? ○ EVP / Enhanced Virus Protection ? ○ Turbo Core 3.0 technology
Low power features	PowerNow!
Integrated peripherals / components	
Integrated graphics	○ GPU Type: Radeon HD 8670D Base frequency (MHz): 844
Memory controller	○ The number of controllers: 1 Memory channels: 2 Supported memory: DDR3-1866
Other peripherals	○ PCI Express 2.0 ○ HD Media Accelerator
Electrical / Thermal parameters	
Maximum operating temperature ?	74°C
Thermal Design Power ?	**100 Watt**